BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Subsidiary Diploma in Land-based Studies Pearson BTEC International Level 3 Foundation Diploma in Land-based Agriculture Pearson BTEC International Level 3 Diploma in Land-based Agriculture Pearson BTEC International Level 3 Extended Diploma in Land-based Agriculture
Unit number and title	Unit 15: Livestock Health and Diseases
Learning aim(s)	**A** Understand how pathogens and parasites impact on livestock health management
Assignment title	**Livestock Diseases and Parasites**
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	You work on a mixed farm with a variety of livestock types. The Farm Manager has agreed to take on some voluntary workers. As part of their induction the Farm Manager is keen to ensure they have a good understanding of the diseases and parasites that can affect farm livestock and how they spread. The Farm Manager has asked you to produce an illustrated report that can be given to new volunteers working on the farm in order to help prevent the spread of diseases and parasites.
Task 1	Produce an illustrated report in which, for one selected livestock species, you examine the structure, function, and routes of transmission for **two** examples **of each** of the following: • bacterial • viral • fungal • parasite Provide details of the growth and reproduction of your chosen pathogens and parasites and examine how these can be affected by the environment. Include a detailed evaluation of the responses of the immune system; including the meaning and responses of different types of immunity and the involvement and interaction of different cell types. Conclude your report with an evaluation of how the animal immune system can affect the symptoms of a disease.
Checklist of evidence required	Illustrated report

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Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
A.D1	Evaluate the effectiveness of the immune system of an animal in responding to the growth and reproduction of pathogens and parasites.
A.M1	Analyse how the immune system of an animal species responds to the pathogenesis and transmission of pathogens.
A.P1	Explain the structure, growth and reproduction of livestock pathogens and parasites.
A.P2	Explain the routes of transmission and effects on animal health of bacteria, viruses, fungi and parasites.

Sources of information to support you with this Assignment	**Books**
	Carr J, Chen S, Connor J.F., Kirkwood R, Segales J. – *Pig Health* (CRC Press 2018) ISBN: 978-1498704724 Cardell K. – *Practical Sheep Keeping* (The Crowwod Press Ltd, 2012) ISBN: 978-1847973399 Damerow G. – *Chicken Health Hanbdbook* (Storey Publishing 2016) ISBN: 978-1612120133 Lane D, Cooper B and Turner L (eds) – BSAVA Textbook of Veterinary Nursing (British Small Animal Veterinary Association, 2007) ISBN 9780905214894 Matthews J.G. – *Chicken Health Handbook* (Wiley-Blackwell 2016) ISBN: 978-1119073512 Meredith A and Johnson-Delaney (eds) – BSAVA Manual of Exotic Pets (British Small Animal Veterinary Association, 2002) ISBN 9780905214474 Santoro A – *Animal Health & Veterinary Medicine* (Syrawood Publishing House, 2018) ISBN: 978-1682866252 Shankland L. – *Pig Manual: The Complete Step by Step Guide to Keeping Pigs* (J.H.Haynes & Co. Ltd, 2011) ISBN: 978-0857330260 Simpson G (ed) – Practical Veterinary Nursing - Third Edition (British Small Animal Veterinary Association, 1994) ISBN 9780905214276 Straiton E. – *Cattle Ailments: Recognition and Treatment* (The Crowood Press Ltd 2000) ISBN: 978-1861263834 Straiton E. – *Sheep Ailments: Recognition and Treatment* (The Crowood Press Ltd 2001) ISBN: 978-1861263971 Thomas H.S. – *The Cattle Health Handbook* (Storey Publishing 2009) ISBN: 978-1603420907 Winter A.C. – *Sheep Health, Husbandry and Disease: A Photographic Guide* (The Crowood Press Ltd, 2011) ISBN: 978-1847972354